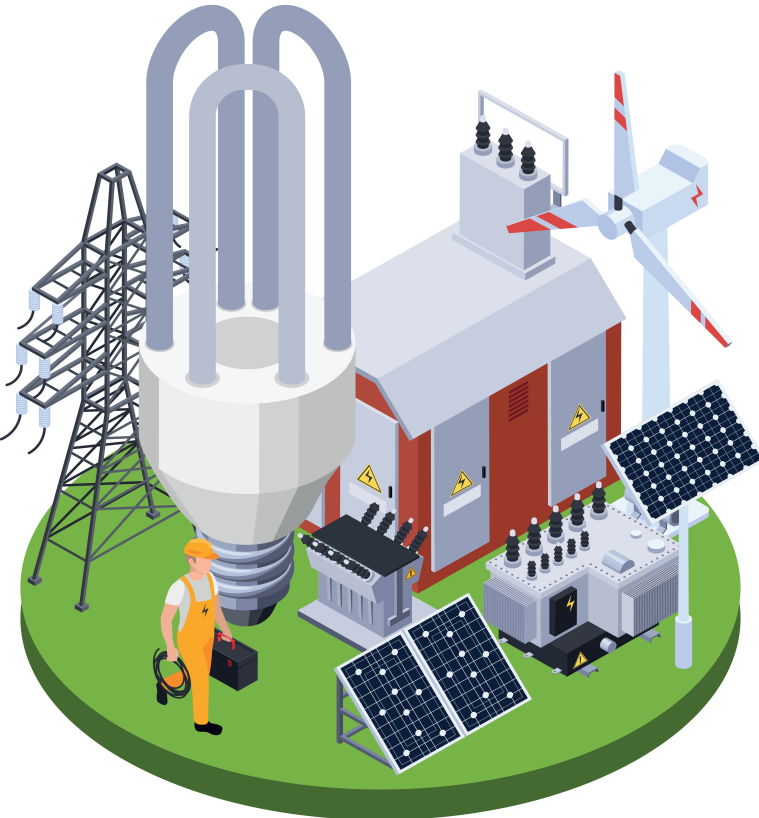


# COMPUTATIONAL TOOL FOR SETTING AND COORDINATION OF OVERCURRENT RELAYS WITH MULTIPLE SETTING GROUPS IN DISTRIBUTION NETWORKS

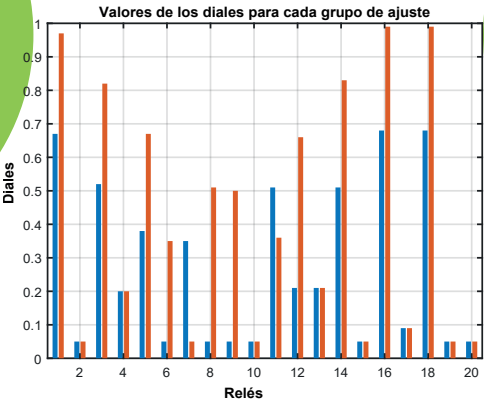
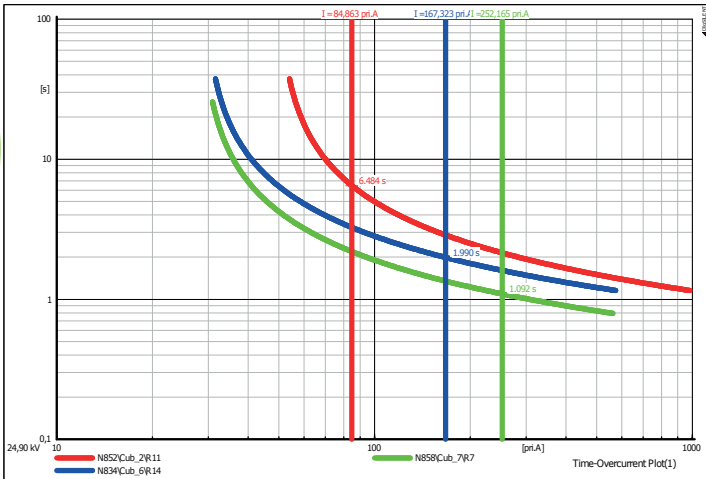


Data entry, CTI, time dial setting (TDS) intervals

The topologies were grouped according to the short-circuit currents, in a determined number of clusters

Linear programming technique

SILENT DIG



Application of the k-means technique to group topologies

Implementation of linear programming algorithm to each cluster, to obtain the TDS's

Protection system simulation in DIgSILENT

The results were validated, verifying that in vent of failure the protections act correctly.

